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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,810	03/09/2004	Bi Le-Khac	01-2629A	2046
24114 75	24114 7590 09/20/2005		EXAMINER	
LYONDELL CHEMICAL COMPANY			LANGEL, WAYNE A	
3801 WEST CH NEWTOWN S	HESTER PIKE QUARE, PA 19073		ART UNIT	PAPER NUMBER
			1754	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/796,810	LE-KHAC ET AL.			
		Examiner	Art Unit			
		Wayne Langel	1754			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	•					
1)	Responsive to communication(s) filed on					
·	•	·				
3)	•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)🖾	Claim(s) 1-20 is/are pending in the application	on.	·			
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1-20</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)[The specification is objected to by the Exami	ner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Addr = b						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3 -3/-0 4 Signature 15 Notice of Informal Patent Application (PTO-152) Other:						
	r No(s)/Mail Date 3 = 3/-0 4	O) [] Oulet				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhou et al in view of Kobayashi et al (the article entitled "Renaissance of immobilized catalysts. New types of polymer-supported catalysts, "microencapsulated catalysts", which enable environmentally benign and powerful high-throughput organic synthesis"). Zhou et al disclose the production of hydrogen peroxide by reacting hydrogen and oxygen in the presence of a transition metal catalyst such as palladium (Paragraghs [0019] and [0059]), and teach in claim 10 that the catalyst may constitute zeolite encapsulated vanadium picolinate peroxo complexes. Kobayashi et al disclose in the Introduction that immobilized catalysts have been of great interest due to several advantages, such as simplification of product work-up, separation, isolation, and reuse of the catalyst, and state that chemical processes with little waste are expected using immobilized catalysts, because they can be recovered and reused. It would be obvious from Kobayashi et al to employ the catalyst of Zhou et al in the form of a microencapsulated catalyst, since Zhou et al recognize in claim 10 that the catalyst may be encapsulated, and one of ordinary skill in the art would be motivated to simplify the product work-up, separation, isolation, and reuse of the catalyst, as suggested by Kobayashi et al. One would also be motivated to operate a more environmentally benign chemical process, as also suggested by Kobayashi et al.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Mondays to Fridays from 8 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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